

CLAIMS

1. A reamer guide for reaming a cavity within a tibia, the reamer guide comprising:
a plate having a circular aperture therethrough and defining a plane; and
a disc rotatably mounted in the aperture, the disc having a bushing therein defining a reamer axis offset from the center of the disc for receiving a reamer in use and in which the disc is rotatable about an axis transverse to the plane of the plate.
2. A reamer guide as claimed in claim 1, wherein the plate further includes at least one mounting hole.
3. A reamer guide as claimed in claim 1, wherein the plate further comprise an inner circular edge having a first formation therein, and wherein the periphery of the disc has a matching formation that engages with the first formation to retain the disc within the aperture.
4. A reamer guide as claimed in claim 3, wherein the circular formation is a shoulder and the matching formation is a flange.
5. A reamer guide as claimed in claim 1, wherein the reamer axis is angled toward the axis of rotation of the disc.
6. A reamer guide as claimed in claim 1, wherein the bushing has a free end and includes a stop located toward a the free end for limiting the travel of a reamer into the bushing.
7. An assembly including:
a reamer guide for reaming a cavity within a tibia, the reamer guide including a plate having a circular aperture therethrough and defining a plane; and a disc rotatably mounted in the aperture, the disc having a bushing therein defining a reamer axis offset from the center of the disc for receiving a reamer in use and in which the disc is rotatable

about an axis transverse to the plane of the plate, the bushing having an inner diameter;
and

a reamer sized to substantially match the inner diameter of the bushing.

8. An assembly as claimed in claim 7, wherein the reamer further includes a projection sized to engage with an edge of a free end of the bushing, the projection positioned a distance from a distal end of the reamer to control the depth of the cavity to be formed to correspond to a desired depth.

9. An assembly as claimed in claim 7, further comprising a universal joint attached to a proximal end of the reamer for transmitting torque to the reamer about the axis between the distal and proximal ends.

10. An assembly as claimed in any one of claims 7, further comprising a drive mechanism attached to the universal joint for rotating the reamer.

11. A method of reaming a cavity within a tibia, the method comprising:
resecting a surface of the tibia in which the cavity is to be reamed;
locating a reamer guide on the resected surface, the reamer guide having a rotating disc with a bushing offset from the center of rotation of the disc, such that the center of the disc is located above the desired center of the cavity;
attaching a drive mechanism to a reamer, the drive mechanism extending at least partially at an acute angle to the longitudinal axis of the reamer;
reaming the tibia through the bushing with the reamer; and
rotating the disc while still driving the reamer, thereby enlarging the cavity.

12. The method of claim 11, wherein reaming through the bushing includes reaming to a predetermined depth before rotating the disc.

13. A method as claimed in claim 11, further comprising securing the reamer guide on the resected surface before beginning reaming.